

Pneumatic vehicle suspension with failsafe internal stop

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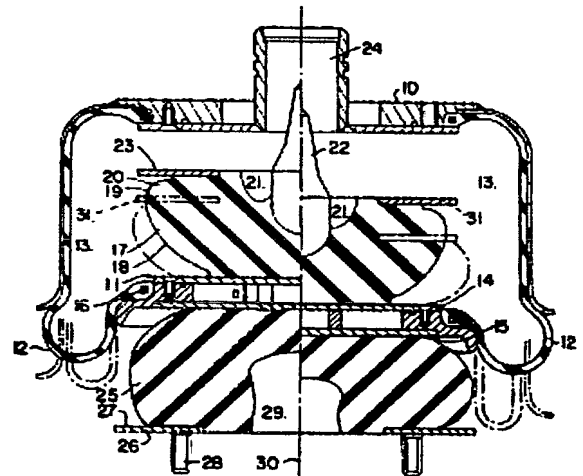
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Abstract of US4690388

A pneumatic spring for use in a vehicle suspension has provided within the pneumatic spring an elastomeric spring which is subject to load only in the event of a pressurization failure of the pneumatic spring. The elastomeric spring is secured at one end to the pneumatic spring and is of generally circular cross-sectional shape in a plane perpendicular to the normal direction in which it would be loaded. The spring additionally is of progressively increasing external diameter over a part of its length as considered in a direction from its secured end to the other, free, end whereby both the vertical compression stiffness and horizontal shear stiffness of the spring progressively increase when the spring is subject to an increasing compression loading in the event of a pressurization failure.



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